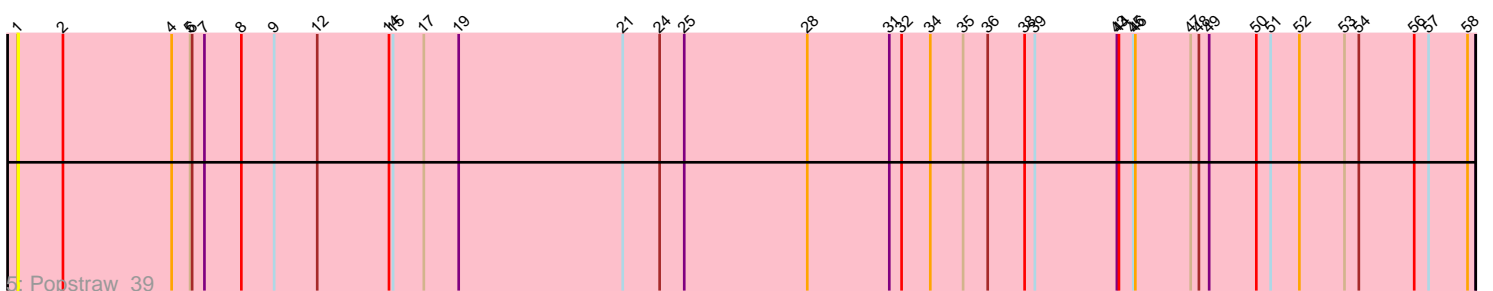
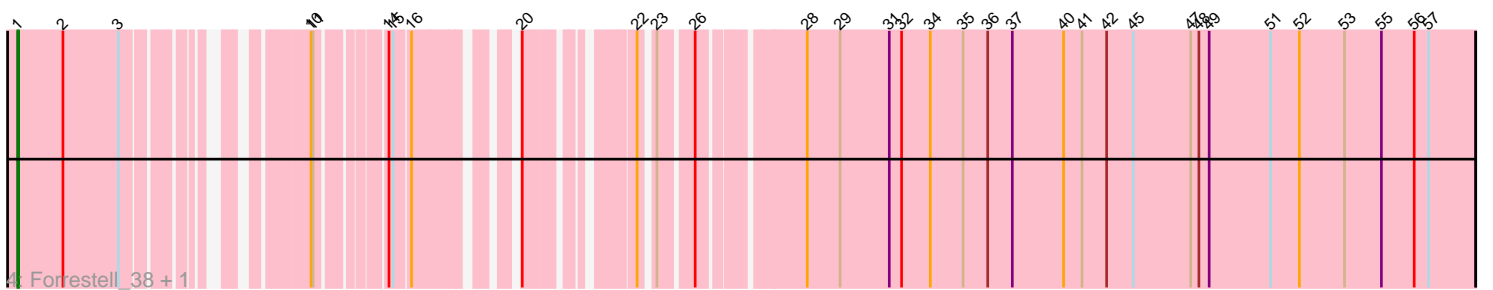
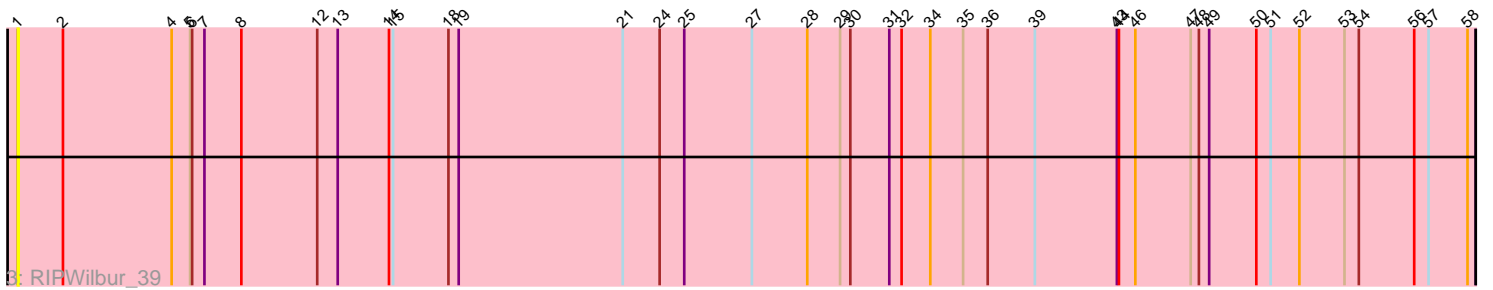
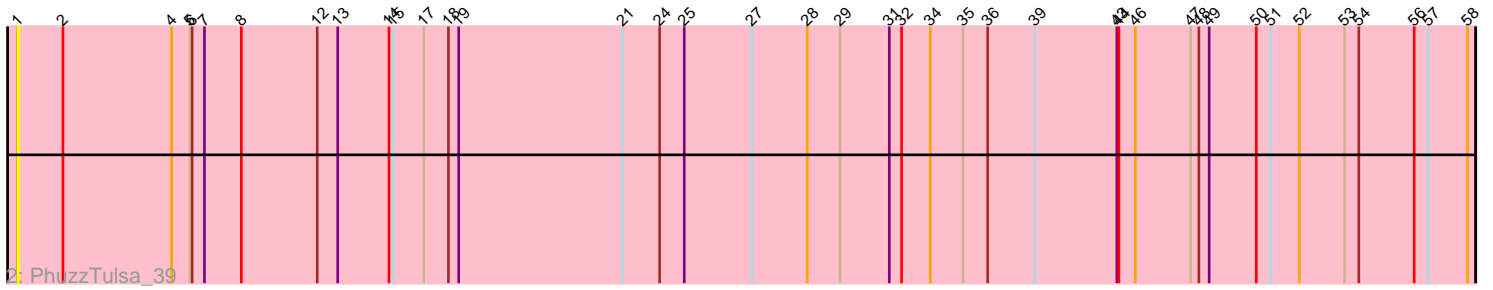
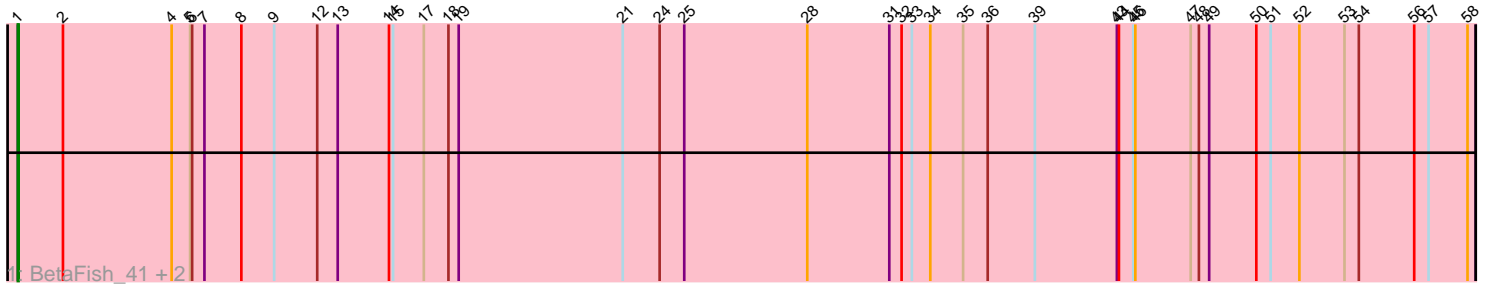


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

## Pham 305538 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305538 has 8 members, 4 are drafts.

Phages represented in each track:

- Track 1 : BetaFish\_41, DogYard\_41, Odyssey395\_43
- Track 2 : PhuzzTulsa\_39
- Track 3 : RIPWilbur\_39
- Track 4 : Forrestell\_38, NyleyClemson\_36
- Track 5 : Popstraw\_39

### ***Summary of Final Annotations (See graph section above for start numbers):***

The start number called the most often in the published annotations is 1, it was called in 4 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BetaFish\_41, DogYard\_41, Forrestell\_38, NyleyClemson\_36, Odyssey395\_43, PhuzzTulsa\_39, Popstraw\_39, RIPWilbur\_39,

Genes that have the "Most Annotated" start but do not call it:

- 

Genes that do not have the "Most Annotated" start:

- 

### **Summary by start number:**

Start 1:

- Found in 8 of 8 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 4 of 4
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BetaFish\_41 (AP2), DogYard\_41 (AP2), Forrestell\_38 (AP2), NyleyClemson\_36 (AP2), Odyssey395\_43 (AP2), PhuzzTulsa\_39 (AP2), Popstraw\_39 (AP2), RIPWilbur\_39 (AP2),

### **Summary by clusters:**

There is one cluster represented in this pham: AP2

Info for manual annotations of cluster AP2:

•Start number 1 was manually annotated 4 times for cluster AP2.

### **Gene Information:**

Gene: BetaFish\_41 Start: 30260, Stop: 32392, Start Num: 1

Candidate Starts for BetaFish\_41:

(Start: 1 @30260 has 4 MA's), (2, 30326), (4, 30485), (5, 30512), (6, 30515), (7, 30533), (8, 30587), (9, 30635), (12, 30698), (13, 30728), (14, 30803), (15, 30809), (17, 30854), (18, 30890), (19, 30905), (21, 31145), (24, 31199), (25, 31235), (28, 31415), (31, 31535), (32, 31553), (33, 31568), (34, 31595), (35, 31643), (36, 31679), (39, 31748), (43, 31868), (44, 31871), (45, 31892), (46, 31895), (47, 31976), (48, 31988), (49, 32003), (50, 32072), (51, 32093), (52, 32135), (53, 32201), (54, 32222), (56, 32303), (57, 32324), (58, 32381),

Gene: DogYard\_41 Start: 29960, Stop: 32092, Start Num: 1

Candidate Starts for DogYard\_41:

(Start: 1 @29960 has 4 MA's), (2, 30026), (4, 30185), (5, 30212), (6, 30215), (7, 30233), (8, 30287), (9, 30335), (12, 30398), (13, 30428), (14, 30503), (15, 30509), (17, 30554), (18, 30590), (19, 30605), (21, 30845), (24, 30899), (25, 30935), (28, 31115), (31, 31235), (32, 31253), (33, 31268), (34, 31295), (35, 31343), (36, 31379), (39, 31448), (43, 31568), (44, 31571), (45, 31592), (46, 31595), (47, 31676), (48, 31688), (49, 31703), (50, 31772), (51, 31793), (52, 31835), (53, 31901), (54, 31922), (56, 32003), (57, 32024), (58, 32081),

Gene: Forrestell\_38 Start: 28753, Stop: 30567, Start Num: 1

Candidate Starts for Forrestell\_38:

(Start: 1 @28753 has 4 MA's), (2, 28819), (3, 28900), (10, 29080), (11, 29083), (14, 29158), (15, 29164), (16, 29182), (20, 29287), (22, 29401), (23, 29416), (26, 29458), (28, 29590), (29, 29638), (31, 29710), (32, 29728), (34, 29770), (35, 29818), (36, 29854), (37, 29890), (40, 29965), (41, 29992), (42, 30028), (45, 30067), (47, 30151), (48, 30163), (49, 30178), (51, 30268), (52, 30310), (53, 30376), (55, 30430), (56, 30478), (57, 30499),

Gene: NyleyClemson\_36 Start: 28734, Stop: 30548, Start Num: 1

Candidate Starts for NyleyClemson\_36:

(Start: 1 @28734 has 4 MA's), (2, 28800), (3, 28881), (10, 29061), (11, 29064), (14, 29139), (15, 29145), (16, 29163), (20, 29268), (22, 29382), (23, 29397), (26, 29439), (28, 29571), (29, 29619), (31, 29691), (32, 29709), (34, 29751), (35, 29799), (36, 29835), (37, 29871), (40, 29946), (41, 29973), (42, 30009), (45, 30048), (47, 30132), (48, 30144), (49, 30159), (51, 30249), (52, 30291), (53, 30357), (55, 30411), (56, 30459), (57, 30480),

Gene: Odyssey395\_43 Start: 30085, Stop: 32217, Start Num: 1

Candidate Starts for Odyssey395\_43:

(Start: 1 @30085 has 4 MA's), (2, 30151), (4, 30310), (5, 30337), (6, 30340), (7, 30358), (8, 30412), (9, 30460), (12, 30523), (13, 30553), (14, 30628), (15, 30634), (17, 30679), (18, 30715), (19, 30730), (21, 30970), (24, 31024), (25, 31060), (28, 31240), (31, 31360), (32, 31378), (33, 31393), (34, 31420), (35, 31468), (36, 31504), (39, 31573), (43, 31693), (44, 31696), (45, 31717), (46, 31720), (47, 31801), (48, 31813), (49, 31828), (50, 31897), (51, 31918), (52, 31960), (53, 32026), (54, 32047), (56, 32128), (57, 32149), (58, 32206),

Gene: PhuzzTulsa\_39 Start: 30045, Stop: 32177, Start Num: 1

Candidate Starts for PhuzzTulsa\_39:

(Start: 1 @30045 has 4 MA's), (2, 30111), (4, 30270), (5, 30297), (6, 30300), (7, 30318), (8, 30372), (12, 30483), (13, 30513), (14, 30588), (15, 30594), (17, 30639), (18, 30675), (19, 30690), (21, 30930), (24, 30984), (25, 31020), (27, 31119), (28, 31200), (29, 31248), (31, 31320), (32, 31338), (34, 31380), (35, 31428), (36, 31464), (39, 31533), (43, 31653), (44, 31656), (46, 31680), (47, 31761), (48, 31773), (49, 31788), (50, 31857), (51, 31878), (52, 31920), (53, 31986), (54, 32007), (56, 32088), (57, 32109), (58, 32166),

Gene: Popstraw\_39 Start: 29869, Stop: 32001, Start Num: 1

Candidate Starts for Popstraw\_39:

(Start: 1 @29869 has 4 MA's), (2, 29935), (4, 30094), (5, 30121), (6, 30124), (7, 30142), (8, 30196), (9, 30244), (12, 30307), (14, 30412), (15, 30418), (17, 30463), (19, 30514), (21, 30754), (24, 30808), (25, 30844), (28, 31024), (31, 31144), (32, 31162), (34, 31204), (35, 31252), (36, 31288), (38, 31342), (39, 31357), (43, 31477), (44, 31480), (45, 31501), (46, 31504), (47, 31585), (48, 31597), (49, 31612), (50, 31681), (51, 31702), (52, 31744), (53, 31810), (54, 31831), (56, 31912), (57, 31933), (58, 31990),

Gene: RIPWilbur\_39 Start: 29399, Stop: 31531, Start Num: 1

Candidate Starts for RIPWilbur\_39:

(Start: 1 @29399 has 4 MA's), (2, 29465), (4, 29624), (5, 29651), (6, 29654), (7, 29672), (8, 29726), (12, 29837), (13, 29867), (14, 29942), (15, 29948), (18, 30029), (19, 30044), (21, 30284), (24, 30338), (25, 30374), (27, 30473), (28, 30554), (29, 30602), (30, 30617), (31, 30674), (32, 30692), (34, 30734), (35, 30782), (36, 30818), (39, 30887), (43, 31007), (44, 31010), (46, 31034), (47, 31115), (48, 31127), (49, 31142), (50, 31211), (51, 31232), (52, 31274), (53, 31340), (54, 31361), (56, 31442), (57, 31463), (58, 31520),